PATENT ABSTRACTS OF JAPAN

(11)Publication number:

08-325094

(43)Date of publication of application: 10.12.1996

(51)Int.CI.

C30B 25/14 H01L 21/205 H01L 33/00

(21)Application number: 08-066254

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(22)Date of filing:

22.03.1996

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(30)Priority

Priority number: 07 73318

Priority date : 30.03.1995

Priority country: JP

(54) PREPARATION OF III-V GROUP COMPOUND SEMICONDUCTOR

(57)Abstract:

PURPOSE: To produce a III-V group compd. semiconductor exhibiting (p) type conduction even if a post-treatment is not applied.

CONSTITUTION: In a pyrolytic vapor growth method of the III-V group compd. semiconductor expressed by the general formula InxGayAlzN (in the formula, $0 \le x \le 1$, $0 \le y \le 1$, $0 \le z \le 1$, x + y + z = 1) and containing a (p) type impurity by using an organometallic starting gas, an inactive gas having ≤ 0.5 vol.% hydrogen concn. is used as a carrier gas, or after etching the inside of a reaction furnace using at least one compd. selected from a group consisting of hydrogen halides, a compd. between a halogen element and a V group element and the compd. of a halogen element, hydrogen and a V group element, the inactive gas having ≤ 0.5 vol.% hydrogen concn. is used as the carrier gas.

LEGAL STATUS

[Date of request for examination]

18.03.1999

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than

the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3198912

[Date of registration]

15.06.2001

[Number of appeal against examiner's decision

of rejection]

[Date of requesting appeal against examiner's

decision of rejection]

[Date of extinction of right]

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